

Title (en)

Method for determining the needed transmission power in a CDMA network

Title (de)

Verfahren zum Bestimmen der notwendigen Sendeleistung in einem CDMA-Netz

Title (fr)

Procédé pour déterminer la puissance d'émission nécessaire dans un réseau CDMA

Publication

**EP 1063788 A1 20001227 (EN)**

Application

**EP 99440155 A 19990618**

Priority

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Abstract (en)

The present invention concerns a method for determining the needed transmission power for establishing a radio communication link between a transmitter unit (Ei) among a plurality of transmitter units (E) gathered together in several geographically spread base stations and a receiver unit (Rj) among a plurality of receiver units (R), with a given signal-to-interference ratio (SIRRj) at the receiver unit (Rj), wherein the transmission power (Pt), especially the initial transmission power (Pt,init) is calculated as follows:  $PL$  is the pathloss obtained as the ratio between reported received power (PRj) at the receiver unit (Rj) and known transmitted power (Pti) by the transmitter unit (Ei);  $I_{intra}$  is the interference power received at the receiver unit (Rj) from all other transmitter units (EBS) of the base station (BS) comprising the transmitter unit (Ei), and,  $I_{extra}$  is the interference power received at the receiver unit (Rj) from the transmitter units (E) from all base stations of the network, except the base station (BS) incorporating transmitter unit (Ei).

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CPC (source: EP)

**H04W 52/243** (2013.01); **H04W 52/40** (2013.01); **H04W 52/50** (2013.01)

Citation (search report)

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